

Xianjue Chen

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

4,229
citations

94269

37
h-index

118652

62
g-index

94
all docs

94
docs citations

94
times ranked

6412
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of Black Phosphorus with Oxygen and Water. <i>Chemistry of Materials</i> , 2016, 28, 8330-8339.	3.2	436
2	Vortex fluidic exfoliation of graphite and boron nitride. <i>Chemical Communications</i> , 2012, 48, 3703.	2.2	245
3	Capturing the active sites of multimetallic (oxy)hydroxides for the oxygen evolution reaction. <i>Energy and Environmental Science</i> , 2020, 13, 4225-4237.	15.6	186
4	Large-area single-crystal AB-bilayer and ABA-trilayer graphene grown on a Cu/Ni(111) foil. <i>Nature Nanotechnology</i> , 2020, 15, 289-295.	15.6	141
5	Ultrafast Aqueous Potassium Ion Batteries Cathode for Stable Intermittent Grid-Scale Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1801413.	10.2	136
6	<i>Operando</i> Raman Spectroscopy Reveals Cr-Induced-Phase Reconstruction of NiFe and CoFe Oxyhydroxides for Enhanced Electrocatalytic Water Oxidation. <i>Chemistry of Materials</i> , 2020, 32, 4303-4311.	3.2	115
7	Nitrate removal from liquid effluents using microalgae immobilized on chitosan nanofiber mats. <i>Green Chemistry</i> , 2012, 14, 2682.	4.6	114
8	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21493-21498.	7.2	97
9	Optimising a vortex fluidic device for controlling chemical reactivity and selectivity. <i>Scientific Reports</i> , 2013, 3, 2282.	1.6	93
10	Controlled Folding of Single Crystal Graphene. <i>Nano Letters</i> , 2017, 17, 1467-1473.	4.5	92
11	Nitrogen Vacancy Induced Coordinative Reconstruction of Single-Atom Ni Catalyst for Efficient Electrochemical CO ₂ Reduction. <i>Advanced Functional Materials</i> , 2021, 31, 2107072.	7.8	89
12	Graphitization of graphene oxide films under pressure. <i>Carbon</i> , 2018, 132, 294-303.	5.4	84
13	Efficient Oxygen Evolution and Gas Bubble Release Achieved by a Low Gas Bubble Adhesive Iron-Nickel Vanadate Electrocatalyst. <i>Small</i> , 2020, 16, e2002412.	5.2	77
14	Shear induced formation of carbon and boron nitride nano-scrolls. <i>Nanoscale</i> , 2013, 5, 498-502.	2.8	68
15	Rapid thermal decomposition of confined graphene oxide films in air. <i>Carbon</i> , 2016, 101, 71-76.	5.4	65
16	Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. <i>Chemistry of Materials</i> , 2017, 29, 4546-4556.	3.2	63
17	Biogenic production of palladium nanocrystals using microalgae and their immobilization on chitosan nanofibers for catalytic applications. <i>RSC Advances</i> , 2013, 3, 1009-1012.	1.7	60
18	Functional multi-layer graphene-algae hybrid material formed using vortex fluidics. <i>Green Chemistry</i> , 2013, 15, 650.	4.6	60

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19	High valence chromium regulated cobalt-iron-hydroxide for enhanced water oxidation. <i>Journal of Power Sources</i> , 2018, 402, 381-387.	4.0	60
20	p-Phosphonic acid calix[8]arene assisted exfoliation and stabilization of 2D materials in water. <i>Chemical Communications</i> , 2012, 48, 11407.	2.2	58
21	Ultrahigh Areal Capacity Hydrogen α Batteries with MoO ₃ Loading Over 90 mg cm ⁻² . <i>Advanced Functional Materials</i> , 2020, 30, 2005477.	7.8	57
22	Controlling the Thickness of Thermally Expanded Films of Graphene Oxide. <i>ACS Nano</i> , 2017, 11, 665-674.	7.3	55
23	Pyrene-conjugated hyaluronan facilitated exfoliation and stabilisation of low dimensional nanomaterials in water. <i>Chemical Communications</i> , 2013, 49, 4845.	2.2	54
24	Confinement of Ionic Liquids at Single-Ni-Sites Boost Electroreduction of CO ₂ in Aqueous Electrolytes. <i>ACS Catalysis</i> , 2020, 10, 13171-13178.	5.5	54
25	Co-Fe binary metal oxide electrocatalyst with synergistic interface structures for efficient overall water splitting. <i>Catalysis Today</i> , 2020, 351, 44-49.	2.2	52
26	Metal α Sulfur Linkages Achieved by Organic Tethering of Ruthenium Nanocrystals for Enhanced Electrochemical Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21465-21469.	7.2	52
27	A zero-dimensional nickel, iron α metal α organic framework (MOF) for synergistic N ₂ electrofixation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18810-18815.	5.2	52
28	Porous Two-Dimensional Monolayer Metal α Organic Framework Material and Its Use for the Size-Selective Separation of Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28107-28116.	4.0	51
29	Entrapment of <i>Chlorella vulgaris</i> cells within graphene oxide layers. <i>RSC Advances</i> , 2013, 3, 8180.	1.7	50
30	Controlling nanomaterial synthesis, chemical reactions and self assembly in dynamic thin films. <i>Chemical Society Reviews</i> , 2014, 43, 1387-1399.	18.7	50
31	Synergistic bimetallic CoFe ₂ O ₄ clusters supported on graphene for ambient electrocatalytic reduction of nitrogen to ammonia. <i>Chemical Communications</i> , 2019, 55, 12184-12187.	2.2	50
32	Ultrastiff, Strong, and Highly Thermally Conductive Crystalline Graphitic Films with Mixed Stacking Order. <i>Advanced Materials</i> , 2019, 31, e1903039.	11.1	49
33	Ni ₂ P@carbon core-shell nanorod array derived from ZIF-67-Ni: Effect of phosphorization temperature on morphology, structure and hydrogen evolution reaction performance. <i>Applied Surface Science</i> , 2018, 457, 933-941.	3.1	48
34	(N, B) Dual Heteroatom-Doped Hierarchical Porous Carbon Framework for Efficient Electroreduction of Carbon Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6003-6010.	3.2	45
35	Non-covalently modified graphene supported ultrafine nanoparticles of palladium for hydrogen gas sensing. <i>RSC Advances</i> , 2013, 3, 3213.	1.7	44
36	A versatile approach for decorating 2D nanomaterials with Pd or Pt nanoparticles. <i>Chemical Communications</i> , 2013, 49, 1160-1162.	2.2	43

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37	Raman Spectral Band Oscillations in Large Graphene Bubbles. <i>Physical Review Letters</i> , 2018, 120, 186104.	2.9	43
38	Defective Indium/Indium Oxide Heterostructures for Highly Selective Carbon Dioxide Electrocatalysis. <i>Inorganic Chemistry</i> , 2020, 59, 12437-12444.	1.9	40
39	Synthesis of nanocrystalline Mg-based Mg ²⁺ /Ti composite powders by mechanical milling. <i>Materials Characterization</i> , 2015, 106, 44-51.	1.9	38
40	Vertical Growth of Porous Perovskite Nanoarrays on Nickel Foam for Efficient Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4863-4870.	3.2	38
41	Self-Supported NiSe ₂ Nanowire Arrays on Carbon Fiber Paper as Efficient and Stable Electrode for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11884-11891.	3.2	37
42	Nanostructured amalgams with tuneable silver ⁺ -mercury bonding sites for selective electroreduction of carbon dioxide into formate and carbon monoxide. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15907-15912.	5.2	37
43	Surface Reconstruction of Ultrathin Palladium Nanosheets during Electrocatalytic CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020, 132, 21677-21682.	1.6	37
44	Metal-cation-modified graphene oxide membranes for water permeation. <i>Carbon</i> , 2020, 170, 646-657.	5.4	35
45	Amphiphilic graphene oxide stabilisation of hexagonal BN and MoS ₂ sheets. <i>Chemical Communications</i> , 2015, 51, 11709-11712.	2.2	34
46	Sub-micron moulding topological mass transport regimes in angled vortex fluidic flow. <i>Nanoscale Advances</i> , 2021, 3, 3064-3075.	2.2	34
47	High performance graphene embedded rubber composites. <i>RSC Advances</i> , 2015, 5, 81707-81712.	1.7	33
48	Tuning the surface energy density of non-stoichiometric LaCoO ₃ perovskite for enhanced water oxidation. <i>Journal of Power Sources</i> , 2020, 478, 228748.	4.0	33
49	Shear flow assisted decoration of carbon nano-onions with platinum nanoparticles. <i>Chemical Communications</i> , 2013, 49, 5171.	2.2	32
50	Shear induced fabrication of intertwined single walled carbon nanotube rings. <i>Chemical Communications</i> , 2014, 50, 11295-11298.	2.2	32
51	Hierarchical Patterning of Multifunctional Conducting Polymer Nanoparticles as a Bionic Platform for Topographic Contact Guidance. <i>ACS Nano</i> , 2015, 9, 1767-1774.	7.3	32
52	Shear induced carboplatin binding within the cavity of a phospholipid mimic for increased anticancer efficacy. <i>Scientific Reports</i> , 2015, 5, 10414.	1.6	30
53	Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity. <i>Advanced Materials</i> , 2021, 33, e2104195.	11.1	30
54	Nitrate uptake by p-phosphonic acid calix[8]arene stabilized graphene. <i>Chemical Communications</i> , 2013, 49, 8172.	2.2	26

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55	Microwave-Induced Plasma Synthesis of Defect-Rich, Highly Ordered Porous Phosphorus-Doped Cobalt Oxides for Overall Water Electrolysis. <i>Journal of Physical Chemistry C</i> , 2020, 124, 9971-9978.	1.5	26
56	Liquid-phase exfoliation of F-diamane-like nanosheets. <i>Carbon</i> , 2021, 175, 124-130.	5.4	26
57	Wrinkle networks in exfoliated multilayer graphene and other layered materials. <i>Carbon</i> , 2020, 156, 24-30.	5.4	23
58	Unravelling the structure and function of human hair. <i>Green Chemistry</i> , 2013, 15, 1268.	4.6	22
59	Vitamin B ₁₂ on Graphene for Highly Efficient CO ₂ Electroreduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41288-41293.	4.0	22
60	Aqueous based synthesis of antimicrobial-decorated graphene. <i>Journal of Colloid and Interface Science</i> , 2015, 443, 88-96.	5.0	20
61	Shock Exfoliation of Graphene Fluoride in Microwave. <i>Small</i> , 2020, 16, e1903397.	5.2	20
62	Template-free assembly of three-dimensional networks of graphene hollow spheres at the water/toluene interface. <i>Journal of Colloid and Interface Science</i> , 2014, 430, 174-177.	5.0	19
63	Microencapsulation of bacterial strains in graphene oxide nano-sheets using vortex fluidics. <i>RSC Advances</i> , 2015, 5, 37424-37430.	1.7	19
64	p-Phosphonic acid calix[8]arene assisted dispersion and stabilisation of pea-pod C ₆₀ @multi-walled carbon nanotubes in water. <i>Chemical Communications</i> , 2015, 51, 2399-2402.	2.2	19
65	Functional noble metal nanostructures involving pyrene-conjugated-hyaluronan stabilised reduced graphene oxide. <i>RSC Advances</i> , 2013, 3, 25166.	1.7	17
66	Dual-responsive, Methotrexate-loaded, Ascorbic acid-derived Micelles Exert Anti-tumor and Anti-metastatic Effects by Inhibiting NF- κ B Signaling in an Orthotopic Mouse Model of Human Choriocarcinoma. <i>Theranostics</i> , 2019, 9, 4354-4374.	4.6	17
67	Self-assembled calixarene aligned patterning of noble metal nanoparticles on graphene. <i>Nanoscale</i> , 2014, 6, 4517-4520.	2.8	16
68	Liquid-phase water isotope separation using graphene-oxide membranes. <i>Carbon</i> , 2022, 186, 344-354.	5.4	15
69	Vortex fluidic induced mass transfer across immiscible phases. <i>Chemical Science</i> , 2022, 13, 3375-3385.	3.7	15
70	Hydrogen induced p-phosphonic acid calix[8]arene controlled growth of Ru, Pt and Pd nanoparticles. <i>Chemical Communications</i> , 2014, 50, 15167-15170.	2.2	13
71	Microwave-assisted shock synthesis of diverse ultrathin graphene-derived materials. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1433-1439.	3.2	13
72	Preparation and Applications of Fluorinated Graphenes. <i>Journal of Carbon Research</i> , 2021, 7, 20.	1.4	13

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73	Structural insights into hydrogenated graphite prepared from fluorinated graphite through Birch-type reduction. <i>Carbon</i> , 2017, 121, 309-321.	5.4	12
74	Unravelling the structure of the C ₆₀ and p-Bu-calix[8]arene complex. <i>Chemical Communications</i> , 2015, 51, 11413-11416.	2.2	11
75	Stage-1 cationic C60 intercalated graphene oxide films. <i>Carbon</i> , 2021, 175, 131-140.	5.4	11
76	Room temperature vortex fluidic synthesis of monodispersed amorphous proto-vaterite. <i>Chemical Communications</i> , 2014, 50, 11764-11767.	2.2	10
77	Synthesis of few-layer graphene by lamp ablation. <i>Carbon</i> , 2015, 94, 349-351.	5.4	10
78	Plasma enhanced vortex fluidic device manipulation of graphene oxide. <i>Chemical Communications</i> , 2016, 52, 10755-10758.	2.2	10
79	Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. <i>Chemistry of Materials</i> , 2021, 33, 2506-2515.	3.2	10
80	Ruthenium Complexes in Homogeneous and Heterogeneous Catalysis for Electroreduction of CO ₂ . <i>ChemCatChem</i> , 2020, 12, 1292-1296.	1.8	9
81	F-diamane-like nanosheets from expanded fluorinated graphite. <i>Applied Surface Science</i> , 2022, 583, 152534.	3.1	8
82	Calixarene-mediated assembly of water-soluble C ₆₀ -attached ultrathin graphite hybrids for efficient activation of reactive oxygen species to treat neuroblastoma cells. <i>Chemical Communications</i> , 2020, 56, 7325-7328.	2.2	7
83	One-Step Photochemical Synthesis of Transition Metal-Graphene Hybrid for Electrocatalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4112-4118.	3.2	6
84	Flash-assisted doping graphene for ultrafast potassium transport. <i>Nano Research</i> , 2022, 15, 4083-4090.	5.8	6
85	p-Phosphonic acid calix[8]arene mediated synthesis of ultra-large, ultra-thin, single-crystal gold nanoplatelets. <i>Chemical Communications</i> , 2019, 55, 3785-3788.	2.2	5
86	Nitrate uptake by p-phosphonic acid or p-(trimethylammonium)methyl calix[8]arene stabilized laminar materials. <i>RSC Advances</i> , 2014, 4, 48348-48352.	1.7	3
87	Metal-Sulfur Linkages Achieved by Organic Tethering of Ruthenium Nanocrystals for Enhanced Electrochemical Nitrogen Reduction. <i>Angewandte Chemie</i> , 2020, 132, 21649-21653.	1.6	3
88	Spatially confined atomic dispersion of metals in thermally reduced graphene oxide films. <i>Carbon</i> , 2022, 188, 367-375.	5.4	2
89	Graphite-Mediated Microwave-Exfoliated Graphene Fluoride as Supercapacitor Electrodes. <i>Nanomaterials</i> , 2022, 12, 1796.	1.9	2
90	Liquid interface evolution of polyhedral-like graphene. <i>Chemical Communications</i> , 2015, 51, 14609-14612.	2.2	1